

# THE GUNS OF KINGSTON

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THE KINGSTON GUNNERS

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Ьу

David Francis and Barry Porteous

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#### INTRODUCTION

At the 1990 Annual Meeting of the Kingston Gunners, an Association of serving and retired officers of the Royal Regiment of Canadian Artillery, it was suggested that a useful project for our Association would be a survey of the guns of Kingston. Two members, David Francis and Barry Porteous volunteered to do the survey. Since there were no terms of reference and the authors felt entirely free to carry it out in whatever manner they saw fit, a word of explanation may help to clarify the result.

From the outset we were aware that the guns of Kingston were of considerable historical significance and that there were a great many of them. We were also aware that other surveys had been carried out in years gone by and we felt that any existing lists would provide a useful starting point for our survey. We hoped to build on the work of our predecessors and in that way bring their lists up to date.

In following this approach we quickly learned that the past records were somewhat patchy and that there were separate lists for Fort Henry, Royal Military College, Fort Frontenac, Murney Tower and city parks. We therefore approached the appropriate authorities at these locations and without exception met with unstinting help and co-operation. A list of acknowledgements appears elsewhere in this report and we are most grateful to all those who assisted in our project.

Having established the necessary contacts and having provided ourselves with what lists were available. we set out to do the field work which consisted of checking, listing and photographing every gun we could find. This information we entered in a data base in a personal computer, and is reproduced at Annex A.

One of the most difficult decisions was where to draw the line as to which guns should be included. Although our basic intention was to list artillery pieces, we did include the primary armament of armoured vehicles, naval guns and such historic weapons as an 1883 Gatling Gun and a famous one inch Rampart Gun known as "Brown Bess", but otherwise small arms were not included. We decided that only authentic weapons would be listed, thus excluding model guns of all types and sizes. Lastly, we felt that the considerable numbers of incomplete guns in the form of gun barrels should be included since they are of historical significance and in ancient weapons lack only a reproduced carriage to be classed as complete guns.

Geographically, we resisted the temptation to rove farther afield than the immediate environs of Kingston. knowing full well that there are guns, for example. in Gananoque. Napanee, Ferth and Picton. Similarly, we decided not to get involved on the other side of Lake Ontario. For background atmosphere we did visit the "battlefield" at Sackett's Harbour, NY where there are a few old guns, both US and British. The most interesting of these, from our point of view, was a 32 pounder, sans trunnions, bearing the royal cypher of George II, which would date its origin to 1727-1760. We were intrigued, too, with the story of a naval bombardment of Sackett's Harbour by HMS Royal George and other Canadian ships. According to the American account their shortage of ammunition led the defenders to retrieve some of the Canadian shot and fire it back at the ships. But since the shot was of a calibre smaller than the American guns they remedied this discrepancy by wrapping the ball in a piece of carpet before ramming it down the muzzle. One has to marvel at this unique method of reducing windage!

Inevitably, as we became immersed in the fascinating world of antique guns, there was a temptation to attempt "the" definitive reference on the subject, at least insofar as it pertains to the guns of this area. We have resisted this impulse, however, for several reasons. In the first place, notwithstanding our individual personal qualifications, we see ourselves as rank amateurs in the field and we feel there are professionals who could do a much better job of it, if indeed there is any demand for such a publication. Secondly, such a book would necessarily draw heavily on the already formidable array of existing works. We have therefore decided to stick more or less to the original concept of a "survey" and to include a bibliography of the excellent books we have encountered. We strongly recommend that our modest effort be read in conjunction with the excellent little pamphlet "An Introduction to British Artillery in North America" by S. James Gooding.

By this roundabout introduction we thus finally come to the aim of our project, which is to provide an up-to-date census of the Guns of Kingston. We have tried to make the result a little more interesting than just a computer printout and we hope the result may be acceptable not only to our parent organization, The Kingston Gunners, but also to all those interested in gun development and the part played by these guns in the history of Kingston.

## ACKNOWLEDGEMENTS

Fort Henry

Stephen Mecredy Bill Wilson

Royal Military College

Dr Jack Pike

Lt Col (Ret'd) Philip "Pip" Nation

Ross MacKenzie Capt K Robichaud

Believue House

John Grenville

City of Kingston

Douglas Fluhrer

Murney Tower Museum

Jody Eskrit

Brig Gen (Ret'd) C de L Kirby Brig Gen (Ret'd) W W Turner tima lie (kekit) LV Lacking



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Artillery Through the Ages - Albert Manucy, US Nat Park Svc

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- S. James Gooding

British Artillery on Land & Sea 1790-1820 - Robt Wilkinson Latham

Firepower - Weapons Effectiveness on the Battlefd 1630-1850 Maj Gen BP Hughes CB CBE

The Gun Founders of England - Chas ffoulkes CB CBE

Coast Artillery 1815-1914 - Roger F Sarty

Fort Henry, Citadel of Upper Canada - St Lawrence Pks Comm

Cannon of Pendennis and St Mawes Castles, Cornwall - Austin C Carpenter

Cannon of Dartmouth Castle, Devon - Austin C Carpenter

Defending Halifax: Ordnance 1825-1906 - Parks Canada

A History of Artillery - Ian V Hogg

Artillery - John Bachelor and Ian Hogg

Round Shot & Rammers (Intro to Mzl Loading Land Arty in US)
- Harold L Peterson

British Smooth Bore Artillery - Maj Gen B P Hughes CB CBE

The Snowy Owl 1955, Kingston's Martello Towers
- N. M. Shackleton

A Short History of Kingston as a Military and Naval Centre — George F.G. Stanley and Richard A. Preston

#### NUMBERS AND TYPES OF GUNS

"As regards the proper length and charge for a piece, ...if the length of a piece of any calibre be 21 diameters of its shot, and loaded with powder equal to half the weight of the shot, it will carry farther than any other of the same calibre, either longer or shorter, loaded with any charge whatever".

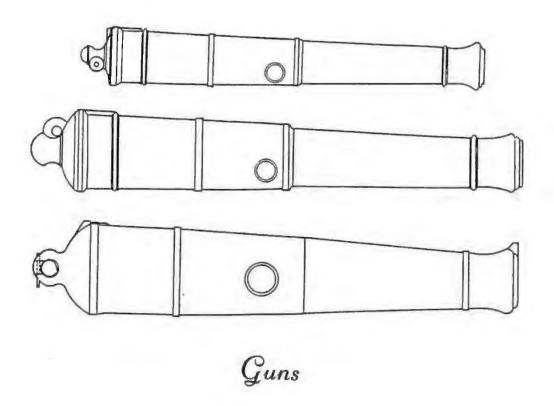
John Muller, TREATISE OF ARTILLERY, 1757.

The purpose of this section is to give a brief introduction to the various types of guns found in the Kingston area.

As pointed out by James Gooding in his Introduction to British Artillery in North America, ordnance in use in North America in the 18th and 19th centuries fell into four main types: guns, carronades, howitzers and mortars. Gooding quotes the Textbook of Service Ordnance, 1886, which stated "Guns may be defined as those pieces which have a length of at least 12 calibres and upwards, and which are adapted for firing either shot or shell". He classes carronades as "short pieces of ordnance having less thickness of metal than guns of the same calibre and normally of about 7 calibres length... Howitzers are....intended for horizontal or higher angle fire. Their length varies from 5 to 10 calibres.... Mortars are.... suitable only for high angle fire. The usual length of a mortar was 3 or 4 calibres".

Displayed at Fort Henry are a number of very old gun barrels of both French and British origin, some of which are thought to have been installed in the last Fort Frontenac, and which were probably quite ancient by the time Fort Frontenac was captured by the British in 1758. Since gun design changed little in those days and cast iron barrels were of enduring quality they tended to remain in service for many years. But eventually, when obsolescence overtook them in the 19th century they were condemned by striking off their trunnions and relegated to their final useful function as ballast in ships of war. When the Rush-Bagot Treaty of 1817 consigned their host vessels to the bottom of Lake Ontario these barrels rested in their watery grave in Deadman's Bay until salvaged in the last few years. Cast in the days before there were any conventions about the marking of ordnance and obliterated by years of water immersion, these barrels are generally of a basic design and show little accurate identification as to age.

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(upper) Armstrong's Pattern gun (middle) Bloomfield's Pattern (lower) Millar's Pattern gun.

3

By far the largest number of guns, however, date from the hey-day of British defence construction in Kingston in the early to mid 19th century. This period coincided with an active period of British gun development and several of these developments are reflected in the types of weapons which made their way to Kingston. Among them the "standard" and most numerous are the Bloomfield pattern guns. Named for Director General of the Ordnance Sir Thomas Bloomfield (or Blomfield), they are recognized by their graceful three tiered taper and slightly flared muzzle.

A variation of smooth bore muzzle loading gun was an 1834 design by Sir William Millar, constructed to fire shell instead of shot. One of these guns at RMC is shown as a Millar gun since that is the way it was shown on the original RMC list. Four more of them at Fort Henry, however, are shown as "Shell guns" because they were so named on the Fort Henry list. Again quoting James Gooding: "In outward appearance they were similar to the common gun except for the removal of some of the minor parts - fillets, astragals, reinforce rings, and breech mouldings, and internally they were made with a tapered powder chamber".

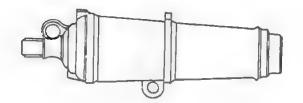
Several guns are listed as Armstrong guns, so named for Sir William Armstrong, who in 1859 was appointed Superintendent of the Royal Gun Factory, Woolwich. Armstrong, instead of taking an existing smoothbore gun and rifling it, which up to this time had not been very successful, abandoned cast iron for wrought iron and built up his gun by shrinking a succession of tubes around the basic barrel, building up the requisite thickness of metal proportional to the internal pressure along the gun. The barrel was rifled and the gun was breech loaded. After trials in 1355 this system was adopted by both the British Army and the Royal Navy and altogether some 4500 guns were produced, but by 1863 it was decided that the breech closing system was unsafe and unable to withstand the pressures necessary to propel a shot hard enough to smash through iron ships. Once more there was a move to muzzle loading cannon, but this time employing a rifled bore and studded shells.



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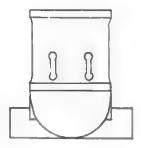
T.

Howitzers



Carronades

Another weapon in considerable numbers is the carronade, built by the Carron company, a Scottish iron-founding and shipping firm, which in 1774 was persuaded to produce a short piece of 8 inch calibre, firing a 68 lb ball, but with a powder charge of only five and one half pounds. This weapon was named "the Smasher" for its effectiveness at short range against shipping and by 1791 had been mounted in 429 ships. Those in the Kingston area are designated 24 and 32 pounders.



 $\mathcal{M}_{ortars}$ 

The term "Coehorn mortar" refers to small 4.5 inch mortars named after their inventor, Baron Menno van Coehorn, a Dutchman. They are light pieces designed to be carried by two men and so were the most mobile of the regular mortars.

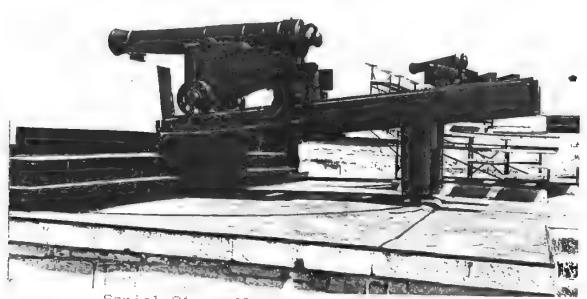
With the profusion of guns in the Kingston defences, it is interesting to note that with rare exceptions nost were never fired in anger. Apart from the very old weapons mentioned at the beginning of this section which in their earliest incarnation may well have seen active service, the only other known action in which any of these guns participated was one recorded in the RMC Museum located in the Fort Frederick Martello tower. This mentions a maritime raid by US forces which "exchanged shorts" with guns at Fort Frederick. Dare we suggest that the shooting was ineffective and the casualties light?

A summary showing the numbers and types of guns at each primary location is shown at Annex C. From this it will be seen that the answer to the Gunner trivia question" How many guns are there in the Kingston area?" is 155. However, one of these is a twin barrelled naval gun, so that adds one more to the total. We can conveniently ignore 9 additional barrels of a 10 barrelled Gatling gun on the grounds that it is a small arms weapon and really should not be included at all!

All of the 15% guns have been seen and checked by the authors with the exception of the two 24 pounders in the ditch towers at Fort Henry. We were unable to gain access to these towers because they were deemed unsafe.

## GUNS OF SPECIAL INTEREST

The oldest qun positively identified is that listed at Serial 21, Code# AA 103, a 32 pr mounted on the west wall of Fort Henry ramparts. This gun is clearly marked on the left trunnion as having been manufactured by Carron in 1796, just five years short of 200 years ago and 71 years before Confederation.



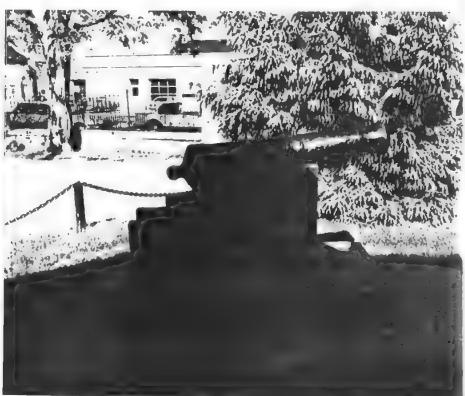
Serial 21, a 32 pounder dated 1796

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Other contenders for the distinction of oldest gun are among those mentioned earlier as having been salvaged from the waters of Deadman's Bay and listed as Serials 56-**6**8 and 74-75. Some of these are of French origin and according to the Whig Standard article of June 4, 1988, "were in place at the last Fort Frontenac. They were probably quite old when Lieutemant Colonel John Bradstreet captured them in 1758, after which they led a typically knockabout existence, becoming more and more obsolete until they were good only for ballact. That's how they came to be among ones recovered in 1938 from the wreck of the War of 1812 frigate HMS Prince Regent which was scuttled in Deadman's Bay in the 1840s'. Other Ships from this ora from which qui barrols at Serial. 57 and 5 vero recomence and include HMS 80 Law ence, launched 1814. And HMS Charlette. 211 of the above most from bracely the form condemned a confit for use by strating off the , 11 11 mm

One of several other contenders for the distance in a cluest gun is bhat shown at Serial 108, Code# 07, Thursdor's funder", also known as "Dueen Bess', so and cost 3.5 inch gun now sleepily guarding St Andrew': "cosbyteric Church at Princess and Clergy. Its brace plaque proclaims that it "came from the ramparts of Londonderry. I gland. where it defended Protestantism from 1640 to 1938. Presented to William Shannon of Kingston in 1865. In 1909 it was presented to St Andrew's Presbyterian Church by the Apprentice Pays of Derry Lodge #1 and restored in 1990". One ic perhaps and ined to wonder whether a little of the blarney is not reflected in this testimonial, in portioniar. its "defence of Protestantism on the Lamparts of Londondorny' in 1649, the year that Charles I of England lust his head: However, according to the Kingston Whig Standard of June 4, 1988, James Gooding believes this gun to be the third or fourth oldest artillery piece in the country. In any case, an 1865 article in the British Whig reports the gun's arrival on the steamship Moravia, describing it as a 6 pr, 6 feet long, weighing 1980 lbs. The accuracy of this report is also suspect as the barrel in 1991 measures just 2 feet long!





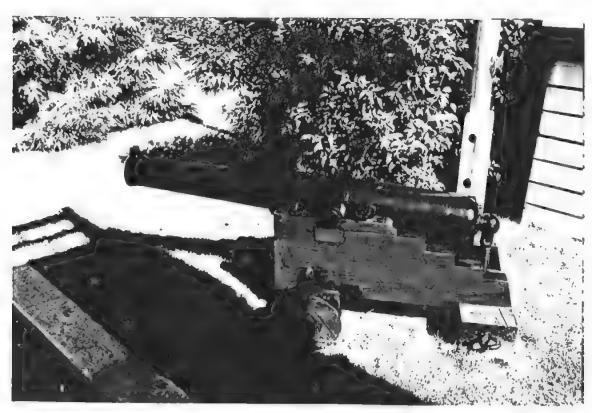
Seria. 108, Shanaafi taraas

Serial 109, Code r 08 is a 3 pr QF Nordenfeld MF I guar Jocated at the residence of Brigadier General C de L kirtz. This gun was manufactured by Maxim-Nordenfeld in 1890. It has a simple has a rifled bore and is breech loading. It has a simple buffer and recuperator and is fitted with rim brakes activated by a crank located in front of the shield. The gun is mounted on a Carriage 3 Pr QF Travelling Mk II, designed to take either the Nordenfeld Mk I or the Hotchkiss Mk II gun. Found among a shipment of miscellaneous artillery relics from the Fort Henry stockade which were destined as range markers at Petawawa, this gun later a companied General Kirby to Fort Frontenac and now keeps silent vigil over the locust trees in the garden of his home.



Serial 109, the Kirby gun

Serval 112, Code# K 11 is a 9 provided muzzle leading gun of a garrison carriage which was presented to Brigadier General W W Turner in his capacity as Colonel Commandant of the Royal Regiment of Canadian Artillery. The 9 pr RML was the first gun to be made from steel by forging and machining, hence the "Firth Steel" inscribed on the muzzle face. This gun was manufactured by the Royal Gun Factory in 1873. According to the Royal Artillery Institution, Woolwich, it is thought to have been brought to Canada by one of the RA batteries of 7 Brigade RA, stationed at Halifax 1873-75, although the 9 pr was also used by the Royal Navy. It now guards the approaches to General Turner's swimming pool.



Serial 112, the Turner gun

Serial 155, Code K 12 is a small smoothbore muzzleloading gun of approximately 1.75 inch calibre and 2'8" in length, belonging to Lt Col (Retired) L V Cushing. Very little is known about this gun other than that it is supposed to have been a saluting gun on a French man o' war which foundered in Hillsboro Bay at the entrance to Charlottetown harbour in the 1700s and was among ship's stores salvaged by local residents. Its next home was in the village of Rustico at a hotel owned by one John Newsom, until the hotel burned down in 1905. For many years it lay more or less abandoned on farm property belonging to Mrs Cushing's relatives until discovered by Col Cushing who recommended it be placed in the Charlottetown Museum. When the museum failed to show any interest Col Cushing bought the gun, transported it to Kingston, constructed a wooden reproduction carriage of "local pattern" and mounted the gun in his back yard. The gun has no discernible markings other than a faint illegible mark on the right trunnion, but given the folklore of its origin, it would seem to be very old and probably dates at least from the 18th century.

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Serials 103 and 104. Codes K C2 and U3 a.a two Russian guns dating from 1823 and 1826. Located in City Park at King and West St. Following the Crimean War a number of captured Russian guns were made available to Canada as couvenirs and these two came to Kingston where they now flank the statue of the Father of Confederation.



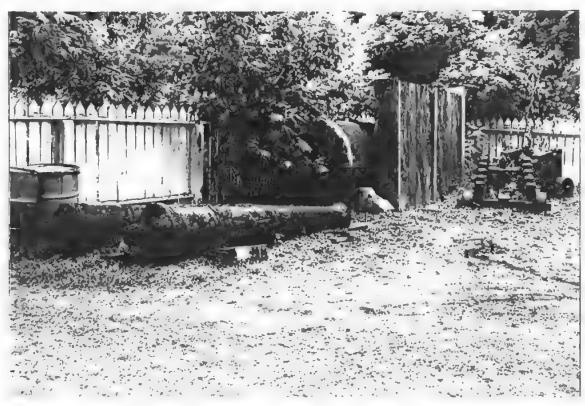
Serials 103 and 104, the Russian guns

Serials 152 and 154. Codes PMC 55 ad 20 are two gun warrels of 4.75 and bore, stack in the road, one on either side of the inner main gate at the Royal Malitary Sollege. Inclined outward at an angle of 30 degrees these barrels are thought to have been planted in the roadway for the purpose of guiding the wheels of horse-drawn pohicies and thus minimizing damage by careless drivers either to the wrought iron gates or the venicle wheels. An old plate in the RMC archives shows them in place in 1883.



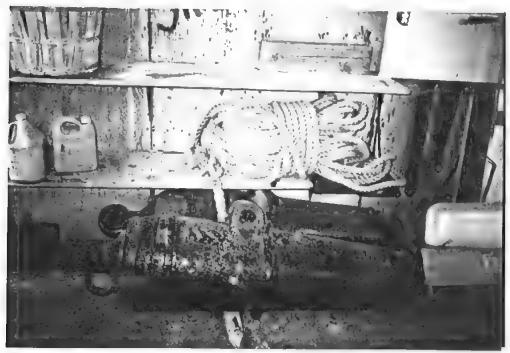
Serials 150 and 154, gun barrels in the road at RMC

So tall 124 ear 120, Soder MMC Dr. Co. 45 are two Fillier gun barrels som Endlising among the woods and other debris at the paint yard of the Royat Milliary College, whore they have rested ignominiously for Several years, their deteriorating wooden carriages hearby. The interesting thing about these weapons is that they are alleged to be the only Palliser guns outside or the Ut. Manufactured in 1870 by the Royal Gun Factory they represented an early advance on the amounth bore barrel by the insertion of a grooved iron sleeve. Studs on the projectile following these grooves imparted a stabilizing spin, improving accuracy. This system was invented by a Capt Falliser of the British 18th Hussars, according to Ian V Hogg's History of the A-tillery, or by Major (afterwards Sir William) Palliser RA, according to <u>Artillery Through the Ages</u> by Col HCB Rogers! Whather Hussar Captain or Gunner Major, Falliser's liner was a significant advance in gun development because it enabled the updating and further utilization of some hundreds of smoothbore guns which were rapidly becoming obsolete. One would hope that the authorities at RMC may find the means to refurbish these unusual guns and restore them to a place of honour in the museum world.



Schools 120 are 120, the Pallings ours

Serials 110 and 111, Codes K 09 and K 10 are two 32 production of the City of Kingston to replace two 24 procurronade barrels which formerly rested on cement blocks adjacent to the RCHA Memorial in City Park. Rationale for the trade is that the new locations more nearly approximate historical accuracy. At present the 32 pounders are at the City Workshop awaiting construction of wooden carriages and the two 24 pounders are on display at Fort Henry, Serials 40 and 41, Codes AA 122 and AA 123.



Serials 110 and 111, 32 pounder carronade barrels

Serial 152, Code RMC 37 is a gun barrel fragment excavated during construction of one of the newer buildings at RMC. Bearing a G2R cypher placing its age from the period 1727-1760, the piece is two feet long and blow at both ends, with a bore of 4.75 inches, the same calibre as the two barrels stuck in the road as described above. Mo low exist as to the circumstances surrounding the blowing of this gun barrel.

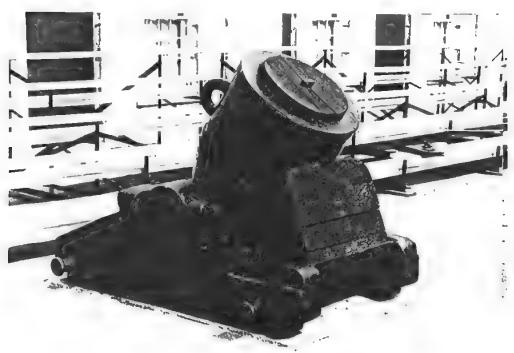
Of the four World War II 25 pounders, two are of special interest. The first is Serial 148, Code RMC 33, known as The Brownfield Gun, having been presented to the Royal Military College by Wilhelmina Brownfield in memory or her late husband, ex-cadet number 1022, Major Gemeral HDN Brownfield, CBE, MC, CD. General Brownfield held the senior artillery appointment of BRA 1st Canadian Army in World War II and later was Honourary Colonel Commandant, Royal Pegiment of Canadian Artillery.



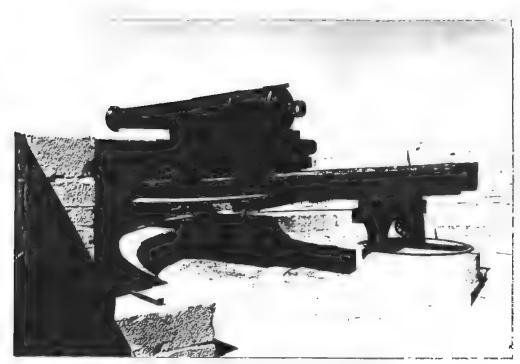


The second, Serial 90, Code CFBC 03, was presented to CFD Kingscon by a former base commander and bunner. Colonel JM Fleming. Furely due to the fact that the authors again to some personal acquaintance with the 25 pounder we can not resist noting a minor fault in this beautifully restored gun. We feel that Col Fleming would want to know that the muzzle velocity charge reader for Charge Super, installed on the range arm of the reciprocating sight, somehow finds itself set at an MV lower than Charge 1 instead of higher than Charge 4!

The distinction of largest calibre would have to co to Serial 42, Code AA 124, a 13 inch mortar at Fort Henry which fired a 200 pound shot to a range of 2700 yards. The largest guns, on the other hand, are of approximately 8 inch calibre. They include the four 8 inch Shell guns at Fort Henry, a 32 pounder Millar gun and an 8 inch Armstrung rifled breech loader at EMC's Fort Frederick.



Serial 42, 13 inch mortar



Serial 50, 8 inch shell gun at Fort Henry



Social 48. 8 inch Armstrong RBL at Fort Frodomick

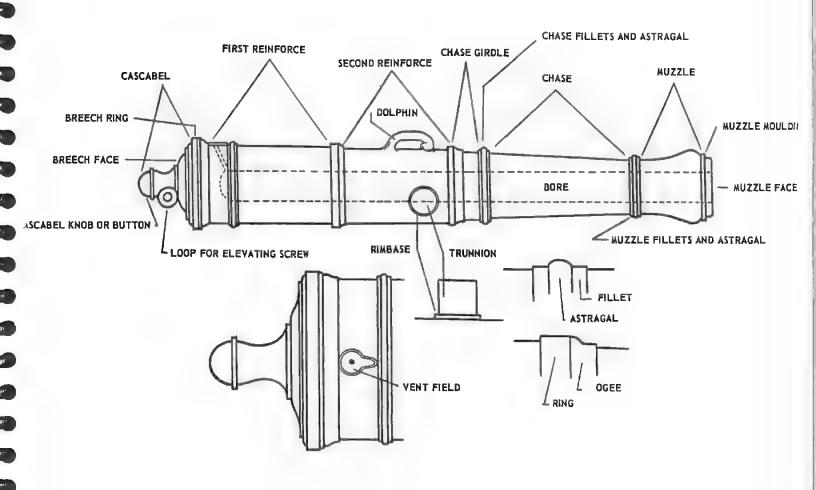
The smallest artillery piece is the little 18 inches long deck howitzer at Serial 57. Code AA 139, of 1.75 inches callbre, salvaged from the wreck of HMS 3t Lawrence which was launched in 1814.

Special mention should be made of the three 32 pounders in the Martello tower at Fort Frederick and the single 32 pounder in the Murney Tower Museum. All of these guns are in their original mounts and are in excellent condition.



Serial 115, 32 pounder at Murney Tower

# THE PARTS OF A GUN (Copied from "Round Shot and Rammers" by !-arold L Peterson.



#### GUN CENSUS

Annex A, in the form of a spreadsheet, provides information on all the guns we have been able to discover in the Kingston area. In order to compress this information to a workable size it has been necessary to abbreviate to such a degree that the result is difficult to read and understand. This section will therefore explain the composition and abbreviations used in Annex A. A separate list of abbreviations appears at Annex B.

Col 1: Serial listing for each gun.

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CODEM: Code number for each gun broadly identifies owner or location of the gun and where appropriate, coincides with previous lists. Thus the codes indicate:

AA - guns at Fort Henry
CFBK - CFB Kingston
Ffrc - Fort Frontenac
K - City of Kingston
MTM - Murney Tower Museum
RMC - Royal Military College

LOC: Detailed location of each gun. Thus, for example, the gun at Serial 1, Code# AA 003 is located at Fort Henry Commissary Store. In any given location of a series of guns the first listed is normally identified by a compass point and the remainder numbered in a clockwise direction.

TYPE: Type of weapon - gun, howitzer, carronade, etc.

Identifies, where appropriate, if it is a barrel only.

CAL: Calibre - generally measured at the muzzle. In some cases is approximate only due to corrosion or difficulty of access.

LENGTH: Generally length of barrel from breech ring to muzzle face. In some cases approximate only, for same reasons as above.

WT: Weight. Generally shown in same manner as marked on gun, ie hundredweight (112 lb) - quarter hundredweight (28 lb) - pounds. Where a single figure is shown it indicates pounds.

MFR: Manufacturer.

DATE: Date of manufacture.

MKG 2R: Markings on 2nd Reinforce.

MKG 1R: Markings on ist Reinforce.

MKG Br: Markings on Breech. '

MKG CASC: Markings on Cascobel.

MKG R TR: Marking Right Trunnion.

MKG L TR: Marking Left Trunnion.

CARR: Carriage description and markings.

NOTES: Self explanatory.

General: In some cases the amount of detail does not fit neatly into the appropriate columns and it has been necessary to insert it in columns where empty space is available. In such cases the information is shown in brackets and may continue horizontally into other inappropriate columns. For example, Serial 54 shows in brackets, without regard for the column headings: (brass case, positive feed, crank operated, elevating and traversing gears).

Abbreviations: See Annex B.

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Page numbers: As in the other annexes, pages are numbered consecutively, preceded by the annex letter. Annex A. nowever, because of the number of columns, is numbered in sets of pages. Thus the first page is numbered A1a, indicating it is the first page of Annex A set a, the second page is A2a, and so on up to A5a which completes the first set. The next page is A1b, A2b, etc. Within sets the serial numbers at the left side of all pages correspond. For example, on page A5c, the detail at serial 148 applies to the gun shown at serial 148 on page A1c.

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AAOOL FH Comm St How 24 pr CBML 1/Ass 5.72 512 512 AAOO4 FH Comm St Gun 9 pr 1d SBML prass 4.20 AAOOS TH Comm St Gun 6 pr 6d SBML 7.86 AAO13 FH RFC NW1 Carronade S2 nr 3.25 AAO14 FH RFC NW2 Carronade 31 pr 6.25 4 AAO15 FH PG S1 Gun 9 pr 6d bronze 4.25 8°5" AAO20 FH ST3 Gun 12 pr Armstr 6d RBL 8 AAO21 FH 1 Cant Gun 9 pr 6d RML 8.00 5 AAO22 FH 1 Cant Gun 12 pr 6d RBL 9.00 4 10 AAO24 FH 2 Cant How 5 in 6d RBL 5.00 4 11 AAO25 FH 2 Cant MG 1 pr QF Mk 1 12 AAO26 FH 2 Cant MG 1 pr QF Mk 1 12 AAO26 FH 2 Cant MG 1.25 pr Mk 111 B1 5	
AA014 FH RFC NW2	e Pogon
3 AAO.5 FH PG S1 Gun 9 pr fd bronze 4.25 5 5 7 AAO20	e Pogon
7 AA020 °H ST3 Gun 12 pr Armstr 19 RBL 8 AA021 FH 1 Cant Gun 9 pr 19 RML 2.00 9 AA022 FH 1 Cant Gun 12 pr 19 RBL 0.00 10 AA024 FH 2 Cant How 5 in 19 RBL 5.00 4	e Pogon
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12 AAO26 FH 2 Cant MG 1 25 mg Mb 144 52 52 5	
	- Alexan
13 AAO27 FH 2 Cant Gun 24 pr short SBML 5.80 6	
14 AAO28 FH RFC NE1 Carronade 32 pr	
15 AAO29 FH RFC NE2 Carronade 32 pr	
16 AAO30 FH RFC NE3 Carronade 32 pr 17 AAO61.1 FH 1 Cant Mortar Coehorn brass 4.50 :	
THOSE I	
18 AA100	
20 AA102 FH RPT W2 Carronade 32 pr 6.41 4	
21 AA103 FH RPT W3 Gun 32 pr Bloom SBML 6.15 9/5"	
22 AA104 FH RPT NW Gun 32 pr Bloom SBML 6.41 10'4	
23 AA105 FH RPT N1 Gun 32 pr Bloom SBML 6.41 1074	П
24 AA106 FH RPT N2 Gun 32 pr Bloom SBML 6.41 10'4 25 AA107 FH RPT N3 Gun 32 pr Bloom SBM	.01
25 AA107 FH RPT N3 Gun 32 pr Bloom SBML 26 AA108 FH RPT N4 Gun 32 pr Bloom SBML	
27 AA109 FH RPT N7 Gun 32 pr Bloom SBML 6.41	
28 AA110 FH RPT N5 Gun 32 pr Bloom SBML	
29 AA111 FH RPT N6 Gun 32 pr Bloom SBML	
30 AA112 FH N Ditch Bl gun 32 pr Bloom SBML 6.41	
31 AA113 FH RPT NE Gun 110 pr Armstr RBL 7.00 32 AA114 FH RPT E1 Gun 24 pr Bloom SBMI 5.83	
32 AA114 FH RPT E1 Gun 24 pr Bloom SBML 5.83 33 AA115 FH RPT E2 Mortar 10 in 10.00	
34 AA116 FH RPT E3 Carronade 32 pr 5.25	
35 AA117 FH RPT E4 Gun 24 pr Bloom SBML 5.83	
36 AA118 FH RPT SE Gun 24 pr Bloom SBML 5.83	
37 AA119 FH RPT S1 Gun 3 pr bronze 2.91 52	
38 AA120 FH RPT S2 Gun 3 pr bronze 2.91 52 39 AA121 FH PG N1 Gun 24 or Bloom SBMI 5.82 1014	
39 AA121 FH PG N1 Gun 24 pr Bloom SBML 5.83 10'4 40 AA122 FH PG N2 Carronade 24 pr 5.50 3'8"	
41 AA123 FH PG N3 Carronade 24 pr 5.50 3/8"	
42 AA124 FH PG W Mortar 13 in 13.00	
43 AA125 FH AB NW Gun 24 pr Bloom SBML 5.83	
44 AA126 FH AB NE Gun 24 pr Bloom SBML 5.83 45 AA127 FH 2Com St Gun 9 pr fd brace 4.20	
15 AA100 FU DO 00	
AND THE PROPERTY OF AS THE PROPE	5
47 AA129 FH St1 Gun 6 pr Armstr fd RBL 2.50 48 AA130 FH St2 Gun 6 pr Armstr fd RBL 2.50	
49 AA131 FH AB S5 Gun S in Shell SBML 8.05	
50 AA132 FH AB S4 Gun 8 in Shell SBML 8.05	
51 AA133 FH AB S3 Gun 56 pr Bloom SBML 7.65	
52 AA134 FH AB S1 Gun 8 in Shell SBML 8.05 53 AA135 FH AB S2 Gun 8 in Shell SBML 9.05	
Sd AA435 FD 4 6	
55 AA127 FU ABOUT GATTING TO DI 0.48 52",	bl 32"
56 AA138 FH Ord St Bl gun Bloom ML 3.25 6	

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	WT	MFR	DATE	MKG 2R	MKG 1R
	1392 1540 50WT 9-3-4	(Sh-R, Malt+, Cr)	1816 1859 1806		12-1-20 VR cyph
6 7 9 10 11 12 14 15	8-1-4 896 684 988 410	(Elev scr) RGF RGF Vickers-Maxim Vickers-Maxim	1861 1873 1907 1899 1905	DI (dolphins) 8-t-4 VR cyph (steel core (brass el (belt fed)	9-3-4 GR cyph HSQMYP R Cyph reinf wire br gear handle) (brass cool (should aim, 20-2-20 1847
16 17 18 19	104	Carron		GR cyph G3R cyph, cr GR cyph	HC King 1814 LIX
20 21 22 23	17-1-17	Carron Carron		Cyph ?R, cr GR cyph, cr	(rear sight) 17-1-17
24 25 26 27		W Co Carron Carron W Co	1811 1803		
28 29 30		Carron Carron	1806 1811	GR cyph,cr	
31 32 33 34		Carron	1862 1810	G3R cyph, cr	VR cyph (Gtr), cr (lift handles) (no discernible mkg:
35 36 37 38 39 40	10.00	Carron (Ch) Gtr G HSQMYP (Ch) Gtr G HSQMYP	1809 1809	GSR cyph,cr GSR cyph, cr DCCCXVIII CCCCXIX R cyph	GR cyph HSQMYP King GR cyph I&H King 180
41 42 43	13-0-0 12-3-14			(handles) GR cyph, cr	(grad R&L side)1-16 12-3-14 17 L M
44 45 46 47 48	1540	Carron	1813 1853	DXXVIII 3-0-16 3-0-17	VR cyph DEMD 12-1-1: Garter cyph VR HSQM` Garter cyph VR HSQM`
49 50 51 52 53			1 <b>84</b> 6		66-0-16 1842 08-0-4 1845 66-0-24 1844
54 55 56	260		1883 1810	(brass case	0-24 1844 pos feed,
				Three cybii	

	MKG BR	MKG CASC	MKG R TR	
1 2	S.Eccles 1853	(R cyph has	Tria Juncta	
3 4	Grad 1-10 R&L	(crew B Gnrs.	3 Dyrs,	
5 6 ?	H & C King 1813	13-3-4	501	
8 9 10 11 12 13 14 15	case, steel		br coil, hook sec, br,50 lb aim,pistol 1820, bored	
17	(grad R%L) 1,2,3		18 P	
19 20 21 22 23	TcV(grad R&L)1,2,3 (Grad 1 mk L, 2R)	Elev thread	32P 32P	
24 25 26 27 28 29			293 32P 32P 252 32P 32P	
30 31 32	El grad 1,2,3, R&L 81-2-20 RGF WD	(Ch) 98 (thr br)	(+) 24 P	
33 34	16-1-25		Jan F 1	91
35 36 37 38	CCK (el grad R&L) (el gauge R&L side) (grad R&L) 1,2,3 (Grad R&L)1,2,3		24 P No 418	95
39 40	CvC 13-0-0	(threaded)	24 P	
41 42 43 44	(GradR&L) 1-16 CVCK, Grad 1,2,3 R&l (grad)1,2,3 R&L	El scr thread	(cap) No 9 104 24 pr	
45 46 47 48	S.Eccles 1853 (Scr br) Scr			
49 50 51 52 53	side mk L1, R2 El grad 1,2,3 R&L (elev grad 1L,2R)		1.0W-MOOR (+)1.0W-MOOR 1.0W-MOOR (+)1.0W-MOOR (+)1.0W-MOOR	
54 55 56	crank op, el &	trav gear)		

	MKG L TR	CARR
1	ın uno, Dieu et	mon droit)
2	S horses)	Wood Wood
55 57 89 10 11 12 14 15	RGF No 52 1861 Rif Fr mod) interr scr br) shell, 4900%) grip,trigger) to 24 pr 1847)	(Wood) CARRONADE 1806 (Wood) CARRONADE 1808 Wood, Bra hubs RCD BW1901 Wood, wood whs Iron carr, wood whs Iron (riv), wood whs Iron box trl, wood whs Iron fd carr, wood whs Naval ped deck mt Wood, 2 iron fr trks
	CARRON 1814 (Carr) 1982	Wood base, handles No carr Wood, 2 iron trks, skid
21 22	70466 CARRON 1806 70451	qood, 2 iron trks Wood,fort mt, 1980 Wood, fort mt,05-1987 06-1986 07-1986
25 26 27		08-1982
28 29 30	70445 CARRON 1806 77199 CARRON 1811	11-1982
31 32 33 34	EO Co No 212 1862 75682 CARRON 1810 (el g)(cap) No 56	14-1989 Wood, 15-1980 Iron, 4 lift hndl 16-19
35 36 37	W Co 70059 CARRON 1806	Wood, 4 wood whs
38 39 40 41	19039 CARRON 1806	Wood, 4 wood whs Iron,iron whs Wood(new), 2 iron whs Wood, 2 iron whs
42 43	(E1)(+)(cap) No9 W Co	Iron, (R)L9M, (L)53-1-11 Grn, iron 4wh
44 45 46	75536 CARRON 1809	(Grn) 24 PR 21-3-4 Fd carr & limber, tools Wood
47 48	RGF No 71 1862	Wood, Pt No 1 FHG 6 pr Wood, Pt No 2 FHG 6 pr
49 50	5675 1955	Wood A5-1985 Wood A4-1980
51 52	3231 2326	Wood A3-1974, skids Wood A1-1975 Fort mt
53 54	2323	Wood A2-19 <b>8</b> 0
55	No trs	Lt fd carr, wood whs Swivel mt, sh aim

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#### NOTES

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Shell 15 lb. R 1750m
1
2
      Rd shot 9 15 5.75 or
200
      Rd shot, R 1200x
d.
      Pitted, covers W Ditch
5
      Pitted, covers W ditch
6
      Ch-M in wreath, crown
7
      W/limb, in maint
8
      Gnr seats, el scr, bra hdwl
9
10
      Buff&Rec, wh anchors
11
     hand op rim brakes
12
      Brass cool case, steel bl
13
     Ammo sol, gr, case, 1500x
14
      Covers E ditch, not open
15
     Covers E ditch, not open
16
     Covers E ditch, not open
17
     Shell 8.5, R 800x
18
     On grnd
19
     Fort mt, incl plane, s cir
20
21
     Oldest gun?
22
     Quoin
23
     Fort mt etc
24
     Fort mt etc
25
     Fort mt, etc
26
     Fort mt, etc
27
     Fort mt, etc
28
     Fort mt, etc
29
     Fort mt, etc
30
     Bl only, on ground
31
     Elev scr & crank
32
     In recoil posn
33
     Elev wedge
34
     Badly chipped paint
35
     In recoil posn
36
     In recoil posn
37
     Elev wedge
38
     Mate to AA119
39
     Wood elev wedge
40
     Quoin
41
     Twin to AA122
42
     Wedge elev
43
44
45
     Rd sh 9 1b 6oz, 1613 fs
46
     Ch-R cyph, Malt+, crown
47
     W/limb, in maint
48
     W/limb, twin to AA129
49
     Fort Mt
50
     On gnd, off carr, off mt
51
     Fort mt, rear pivot
52
     Elev wedge
53
     Fort mt
54
     800-1500 rds/min
55
     Brown Bess model
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Marine salv

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	CODE#	LOC	TYPE	CAL	LENGTH
7890 + 23456789012345	AA144 AA145 AA146 AA147 AA149 AA150 AA151 AA155 AA155 AA155	FH Ord St FH Stock St1	Bl gun 4 pr Fr Bl gun 4 pr Fr Bl gun 8 pr Fr Bl gun 4 pr Fr Bl gun 4 pr Fr Bl gun 9 pr Nav Bl gun 9 pr Bl gun 12 pr ML Bl carronade 32 pr Bl gun Bl how Bl how Bl gun	1.75 75 75 75 75 75 75 75 75 75 75 75 75 7	13" 9"1" 7" 6"5" 6"5" 6"5" 6"5" 6"5" 6"5" 8"6" 8"6
75 76 77 78 79 80 81 83 84	AA159 AA160 AA161 AA162 AA163 AA164 AA165 AA166	FH Stock St1 FH Stock St1 FH Stock St2	Bl gun Bl gun Bl gun bronze How 3 in How 3 in Bl gun PBL Bl gun Bl gun Bl gun Bl gun	2.75 2.50 4.00 3.00 3.00 3.00	3'6" 3 6 2'6" 2'6" 5'7"
85 86 87	AA168 AA169	FH Stock St2 FH Dit T E FH Dit T W	Gun 3 in Gun 24 pr Bloom SBML Gun 24 pr Bloom SBML	3.00	
88 89 90	CFBK 02 CFBK 03	Fisher Bldg Stethem Hall		155 mm 2.45 75 mm	
92 93 94 95	FFro 01 FFro 02 FFro 03 FFro 04	F1 P NW F1 P SW F1 P E	Mortar 8 in Mortar 8 in Mortar 8 in Mortar 10 in How 5 in BL 9 cwt	8.00 8.00 10.90	1710" 1711" 278"
96 97 98 99	FFro 05 FFro 06 FFro 07 FFro 08 FFro 09	River N 1 River N 2 River N 3 River N 4 River S 1 River S 2	Gun 32 pr Bloom SBML Gun 32 pr Bloom SBML Gun 32 pr Bloom SBML	5.00 6.50 6.50 6.50 5.75 3.45	916" 916" 916" 916"
102 103 104 105 106	K 01 K 02 K 03 K 04 K 05 K 06	Clar st pk King&West N King&West S McD Pk FH Tour info McBurney Pk	Gun QF 77 mm Mk1 Gun Russian SBML Gun Russian SBML Bl how Gun Bloom SBML	3.00 6.75 6.75 5.75 5.25 5.75	6'10" 8'4' 8'4" 3'5" 8
108 109 110 111 112	K 07 K 08 K 09 K 10 K 11	St Andrew Ch Kirby res Dity Wksp	Gun SBML Gun 3 pr QF Nordenfeld	3.50	3*3"

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Signature   Sign		WT	MFR	DATE	MKG 2 R	MKG 1R
Second	四四				Indec cyph J3	(Mar salv)
63 64 65 65 66 67 67 68 69 17-0-11 70 11-2-9 Walker Co 71 71 72 73 74 75 76 77 78 2-2-15 BP Co 79 2-2-15 BP Co 80 Armstrong 81 82 83 84 85 8-1-2 RGF 87 88 89 90 90 91 91 92 8-1-18 93 8-1-20 94 18-1-10 Walker Co 95 89 90 90 91 91 92 8-1-18 93 8-1-20 94 18-1-10 Walker Co 95 89 90 90 91 91 92 8-1-18 93 8-1-20 94 18-1-10 Walker Co 95 95 95 95 95 95 95 95 95 95 95 95 95	60				Indec cyph	
63 64 65 65 66 67 77 68 9 17-0-11 70 11-2-9 Walker Co 71 71 72 73 74 75 76 77						
65	63					
57	65					
17-0-11	57				107	
73 74 75 76 77 78 78 79 79 79 79 79 79 79 79 79 79 79 79 79	69 70					
75 76 77 78 8 2-2-15 BP Co 79 2-2-15 BP Co 80 80 81 81 82 83 84 85 85 8-1-2 RGF 89 90 90 1942 8-1-18 93 8-1-20 94 18-1-10 Walker Co 95 8-3-8 655-1-0 Walker Co 97 55-9-14 Walker Co 98 55-0-21 Carron 1799 G3R cyph 1790 G3R cyph	71 73					(Cr) 6
184   King	75					
82 83 84 85 8-1-2 RGF VR cyph 8-1-2 86 87 88 Sorel Industries 1956 89 90 1942 GVI RI cyph (Tac sign 60 LAD) 91 92 8-1-18 93 8-1-20 94 18-1-10 Walker Co 95 8-3-8 (Ch) VR cyph (Br ring) 8-3-8 96 55-1-0 Walker Co G3R cyph 98 56-0-21 Carron 1799 G3R cyph 100 Sorel Ind Ltd 1943 (B1) GVI RI Cyph 101 Sorel Ind Ltd 1943 (B1) GVI RI 101 Sorel Ind Ltd 1943 (B1) GVI RI 101 Sorel Ind Ltd 1942 (B1) GVI RI 102 RGF 1917 C of G line 103 1823 Crest d/eag,cr 104 1826 Crest d/eag,cr 105 106 Carron 1826 Crest d/eag,cr 106 107 Walker Co 1826 Crest d/eag,cr 107 Walker Co 1826 Crest d/eag,cr 108 (Brass plaque) Shannon's Cann Came fm rpts 108 (Brass plaque) Shannon's Cann Came fm rpts 109 Maxim-Nordenfeld 1890 (Ch) 3 (Bra plate) 1890 No (under) Carron 1904 111 110 Carron 1904	77 78 79 80		BP Co BP Co	1812	CCCCXLVII	BP Co 2-2-15
86 87 88	9:2 8:3 8:4					
Second	86	8-1-2	RGF			VR cyph 8-1-2
90	88		Sorel Industries	1956		
92  8-1-18 93  8-1-20 94  18-1-10 Walker Co 95  8-3-8 96  55-1-0 Walker Co 97  55-9-14 Walker Co 98  56-0-21 Carron 99  50-3-25 Carron 1799 G3R cyph 100  Sorel Ind Ltd 1943 (B1) GVI RI 101  Sorel Ind Ltd 1942 (B1) GV1 RI cyph 102  RGF 1917 C of G line 103  Crest d/eag, cr 104  Carron 105  G3R cyph 106  Carron 107  Walker Co 108 (Brass plaque) Shannon's Cann Came fm rpts 109  Maxim-Nordenfeld 100  Carron 110  Carron 1904 (under) Carron 1904 111  Carron 1904	90			1942		
94	92					(Tac sign 60 LAD)
96	94	18-1-10				
98 56-0-21 Carron 1799 G3R cyph 100 Sorel Ind Ltd 1943 (B1) GVI RI 101 Sorel Ind Ltd 1942 (B1) GVI RI 102 RGF 1917 C of G line 6-0-0 103 1823 Crest d/eag,cr 104 1826 Crest d/eag,cr 105 106 Carron 1814 G3R cyph 107 Walker Co G3R cyph 108 (Brass plaque) Shannon's Cann Came fm rpts of Lndndry Ire wh identification of Carron 1904 (under) Carron 1904 110 Carron 1904 (under) 593	96	55-1-0			G3R cyph	(Br ring) 8~3-8
99 50-3-25 Carron 1796?G3R cyph 100 Sorel Ind Ltd 1943 (B1) GVI RI 101 Sorel Ind Ltd 1942 (BI) GV1 RI cyph 102 RGF 1917 C of G line 6-0-0 103 1823 Crest d/eag,cr 104 1826 Crest d/eag,cr 105 106 Carron 1814 G3R cyph 107 Walker Co G3R cyph 108 (Brass plaque) Shannon's Cann Came fm rpts of Lndndry Ire wh in 109 Maxim-Nordenfeld 1890 (Ch) 3 (Bra plate) 1890 No 110 Carron 1904 (under) 593	98	56-0-21	Carron	1799		
102 RGF 1917 C of G line 6-0-0 103 1823 Crest d/eag,cr 104 1826 Crest d/eag,cr 105 106 Carron 1814 G3R cyph 107 Walker Co G3R cyph 108 (Brass plaque) Shannon's Cann Came fm rpts of Lndndry Ire wh identification of the state of	100	50-3-25	Sorel Ind Ltd			
104 1826 Crest d/eag,cr 105 106 Carron 1814 G3R cyph 107 Walker Co G3R cyph 108 (Brass plaque) Shannon's Cann Came fm rpts of Lndndry Ire wh is 109 Maxim-Nordenfeld 1890 (Ch) 3 (Bra plate) 1890 No 110 Carron 1904 (under) Carron 1904 (under) 593	102				C of G line	
106 Carron 1814 G3R cyph 107 Walker Co G3R cyph 108 (Brass plaque) Shannon's Cann Came fm rpts of Lndndry Ire wh it 109 Maxim-Nordenfeld 1890 (Ch) 3 (Bra plate) 1890 No 110 Carron 1904 (under) Carron 1904 111 (under) 593	104					
108 (Brass plaque) Shannon's Cann Came fm rpts of Lndndry Ire wh is 109 Maxim-Nordenfeld 1890 (Ch) 3 (Bra plate) 1890 No 110 Carron 1904 (under) Carron 1904 (under) 593	106				G3R cyph	
109 Maxim-Nordenfeld 1890 (Ch) 3 (Bra plate) 1890 No 110 Carron 1904 (under) Carron 1904 111 (under) 593	108	(Brass	plaque) Shannon's	Cann		of Ladadry Ire wh i
113 0 4 40 pag	110				(Ch) 3	(Bra plate) 1890 No
		8-1-10	RGF	1873		

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	MKG BR	MKG CASC	MKG R TR
57 58 59 60		(Mar salv)	S
61 62 64 65 65			
67 68 69 70 71 72			16 19 46
74 75 76 77 78 <b>7</b> 9 <b>8</b> 0	(Ch) M cyph		No 447 Sir W G Arm-
81 82 83 84 85 86	(Crude reinf br)		
87 88 89	(Reg # CDN 178)		
90	SIC-9-42		
93 94	8-1-18 CVC 8-1-20 18-1-10 BL 5 in HOW No 66	CV NCK 55-9-14 CV NCK	199 201 54 (Axle)RCD1900 920 165 32P
100 101 102 103 104 105 106	25pr11/1 SIL1943 CD/ 25PR C MK 11/1 CDN RGF 1917 No 34 N 1 el mk R&L El mks 1,2,3 R&L CVCK def Prot fm 1649-88 PATENT VON BROADWEL!	(Br) SIC-6-42 (Ch) GV RI, cr No el threads No el threads (No ring)	1826 36.indec 16 18 PR (?) 102
110 111 112	595 1873	·	

MKG L TR

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57 58 59 50	t_	Swivel mt in oak bl Fm Charlotte non-match
61 62 63		
64 65		~
66 67 68		
69 70 71	W Co L	
72 73 74	L <sub>nux</sub>	Wood, Nav, 4 wood trks
75 76 77		
78 79 80	strong & Co No2540	Wood, 4 wood trks Wood, 4 wood trks
81 82 83		
84 85 86	RGF	Wood, fd, dbl beam (18 pr upbored to 24 pr)
87 88 89		Split trail # 0034460
90 91 92 93 94 95 96 97 98 99	(DND No 78-932) S BOWLING (Cap) 201 W Co (Axle) RCD No 204 W Co W Co 39493 CARRON 1799 60898 CARRON ????	(Plaq: Refurb 2RCHA 1984 (Plaq: Refurb 1984 etc)
102 103 104 105 106 107	N19808, indec N20565, indec L 1814 CARRON W Co In 1909 pres to St	RCD Wts (indec) Wood grn repro,4 iron wh Wood grn repro,4 iron wh No carr-Cement slab Wood, grn 4 iron whs No carr-cement stand And Pres Ch by Appr Boys
109 110 111 112	(Rim brakes-crank)	Dbl beam iron fd carr (Exch w/FH for 2x24 Pr
112		Wood Grn

#### NOTES

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ET 7
     From HMS St Lawr laun 1814
     Fm HMS Charlotte
58
59
     Mar salv, no bra
-_{i}(
     Mar salv, no trs
31
     Mar salv, no trs
ÖΞ
     Mar salv, no tre
63
     Mar salv, no trs
64
     Mar salv, no tre
     Mar salv, no trs
65
66
     Mar salv, no trs
67
     Mar salv, no trs
68
     Mar salv, Bl burst
59
70
71
72
     Twin to AA153
73
74
     Mar salv
75
     Mar salv, twin to AA156
76
77
78
フラ
     Twin to AA160
80
     3 grooves
81
     Under furn, not meas
82
     Under furn, not meas
83
     Under furn, not meas
84
     Under furn, not meas
85
     Elev scr
88
     Inaccessible, not seen)
87
     Inaccessible, not seen
88
     Claim on loan fm War Res
89
     In Tk Centurion Mk 5
90
     Plaq: Pres Col J Fleming
91
     Pres Col KG Troughton 1983
92
     Carr side 11-1-6
93
     Carr side 11-1-12
94
     Caps mkd R & L
95
     Bl has 20 grooves
96
     L hand gun of 4
97
     2nd gun fm left
98
     3rd gun fm left
99
     Date illeg, El mks 1.2.3
100
     Tac sign 42 second bty(B)
     Tac sign 42 senior bty (A)
101
102
     Steel ped nav mt
103
104
105
     Cast iron
106
107
     El mks 1,2,3 R&L br
108
     Derry Ldge #1. Rest 1990
109
     2 gnr seats
110
     for city pk or RCHA mem)
111
     (Same as K 9)
112
     Pres by 5 RALC
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Ű	CODE#	LOC	TYPE	CAL	LENGTH
113	MTM 01	MTM M E	Carronade 32 pr		4
114	MTM 02	MTM M W	·	6,25	4
115	MTM 03	MTM 2 fl	Gun 32 pr Bloom SBML		
116	RMC 01	FFT 3 N	•	6.50	mal termi
117	RMC 02	FFT 3 E	Gun 32 pr Bloom SBML	6.50	
118	RMC 03	FFT 3 W	Gun 32 pr Bloom SBML	8.50	
119	RMC 04	P Sq NE	Gun 32 pr Bloom SBML	6,00	
120	RMC 05	FF 2 (clws)	Gun 32 pr Millar SBML	8.00	91.5"
121	RMC 06	FF 3	Gun 32 pr Bloom SBML	6.50	916"
122	RMC 07	FF 5	Gun 32 pr Bloom SBML	6.25	
123	RMC 08	FF 6	Gun 32 pr Millar SBML	8.00	9
124	RMC 09	E AD	Bl oun 32 or Palliser	6,25	916"
1.25	RMC 10	P YD	Bl gun 32 pr Palliser	6.25	9'6"
126	RMC 11	Crer G W	- Sun 32 or Bloom SRMI	6.50	
127	RMC 12	Orer G E	Gun 32 or Bloom SBML	5.75	
1.118	RMC 13	Ft Hald	dun 32 pr Bloom SBML	6.50	
129	RMC 14	Mac W	Gun 32 pr Bloom SBML	6.00	
130	RMC 15	Mac E	Gun 32 pr Bloom SBML	6.00	
131	RMC 16	FF NE 1	Gun 24 pr Armstr SBML		_
132	RMC 17	FF 7	Gun 24 pr Armstr SBML		6
133 134	RMC 18	SSM N	Gun 24 pr SBML bronze		419"
135	RMC 19 RMC 20	SSM S	Gun 9 pr SBML bronze		
136	RMC 21	F1 P E F1 P W	Gun 9 pr SBML bronze		6
137	RMC 22	FFT 2 NW	Gun 9 pr SBML bronze Carronade 32 pr		6
138	RMC 23	FFT 2 N	Carronade 32 pr		
139	RMC 24	FFT 2 NE	Carronade 32 pr		
140	RMC 25			6.50	
141	RMC 26		Carronade 32 pr		
142	RMC 27		Carronade 32 pr		
143	RMC 28	SF N	Mortar 10 in		
144	RMC 29	SF S	Mortar 10 in		
145	RMC 30	FF 4	Gun 8 in Armstr R <b>BL</b>	8.00	
146	RMC 31		Gun 88 mm Pak 43	8 <b>8</b> mm	
147		Crerar Cr	Gun 88 mm Flak	88mm	
148	RMC 33	Massey Lib	Gun 25 pr		(Reg#16055
149		Crerar Cr	Gun Naval QF 4 in twin	4 in	
150		Oreman Or	Gun 20 pr tk	_3.25	
151		In M Gate	Gun 75 mm tk	75 mm	
152		FFT B	Bl gun fragment	4.75	2 _
153	RMC 38 RMC 39	INN MG N	Bl gun	4.75	2.5
154		INN M G S	B1 gun	4.75	2.5
155	K 12	Kuching Red	hour 175 in 5BHL	1.75	2'8"

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	WT	MFR	DATE	MKG 2 R	MKG 1R
113	17-0-4	Carron	1811		32 P CHRRON LB11 77
	16-3-24				16-3-24
		Walker Co		GGR cyph	(Plage :aut in 1800
113	56-7-7	Carron	1806	63 typh	
	56-3-0		1807	G3 cyph	
118	56-0-25		1911	G3 dyph	
119		Walker Co		GGR cyph	
120		Walker Co	1842	_	64-2-10 1842
121	67-0-9		1807	63R cyph	
122		Walker Co		G3R cyph	
123	64-3-0	Walker Co	1842		64-3-0 1842
124 125		RGF	1870	VR cyph	
126		Haller C-		VR cyph	
127	50-1-14	Walker Co Walker Co		G3 R cyph	
128	20-1-14	Carron	1007	G3R cyph	
129			1007	GSP cyph	
130		Walker Co		GSR cyph GSR cyph	ZEWN EL LA G.G.
131		A A gray of 1 to the 1 to the 1	1847	VR cyph	(Br) EL grads 1,2,3 20-0-4 1847
132	20-0-0			VR cyph	20-0-0 1847
133				CLXXV 12-3-7	VR cyph DEMD
134		FM Eardly-Wilmot			4862
135		<b>,</b>			G3R Garter HSQMYP
136			1812		GSR cyph
137	17-3-7			,	-·· -yp
138			1808		(Ser 32 PD WG 1808 :
139	17-2-21	Carron	1804		32 P CARRON 1804 67:
140	17-3-7				(Ser G 546)
141	17-3-11				17-3-11
142	17-1-21				17-1-21
143		Walker Co	1856		(Shot in Mz1)
		(Shot in mzl)			
146	81-3-3	RISE	1862	VR cyph	81-3-3
147					
148	5				
149	•*				
150					
151					
152					9 G2R cyph
153					a des cypii
154		( - )			
155	300(2)	$(\mathcal{O};\epsilon)$			

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	MKG BR	MKG CASC	MKG R TR
114 115 116 117 118 119 120 121 122 123		(Acc#) X71.0802 (Acc#X71.130.02	168 32P 32 PR 32P U 0 32PR 277
127 128 129 130 131 132 133 134 135 136	42-?-17 CVCK 42-?-24 CV C K (El 1,2,3,4) CVC K W NORTH 1843 FM Eardly-Wilmot H and C King 1813 I and H King 1812	(Br) 13-3-6	9 JJ 123 0 120 or 123 Plaque 24 pr 16 12 (for H21 DCCCXXII (BR) El 1,2,3
141 142 143 144	(Ser 2 648) (Ser 5 38)		62
145 146 147 148	(RGF 7.1 N BL GUN (Vert sl) Br rg 124; R5456 1042 CXX	No215 82 CWT) 3	0
149 150 151 152 153	SIL1944		(Br) S 13769
154			Teleg

MKG L TR

### CARR

	(Cap) 32	Wood, 2 iron trks
114	(Cap) 32	Wood, 4 iron trks
115	W Co	(wood) 1859 32 PR
116	70538 CARRON 1806	32 Pr or 8 in 1858
117	71851 CARRON 1807	No 88 1861
118	77204 CARRON 1811	32 pr or Bin
119	W Co	(Iron grn,4 whs) 24 PR
120	W Co	(None)
	716331 CARRON 1807	
122	W Co	cos partern, 1100
	W Co	Wood, Fort Mt
	1870 No 701 MK 1	
125	1870 NS 701 MK 1	Carr separate
126	W Co	Carr separate
	W Ca	Wood Repro
		Wood repro
	71306 CARRON 1807	
127	plaque 24 pr, etc	
130	W Co	Iron Grn 24 P
131	G	Wood, Fort mt, rear pvt
132		Wood, Fort mt
	Sir & Murray MGD)	Wood
	1859	Wood, grn
	(Ch) M cyph	Wood grn
	(Ch) M cyph	Wood grn
137		Wood orig
138		Wood orig
139		Wood orig
140		Wood orig
141		Wood orig
142		Wood orig
143	W Co	Wood 17-0-0 62 B D
144		Wood, 11-1-13 188
145	ED Co No 215 1862	(Wood) Fort mt 1979
146		Cruc Pltfm, Mzl Brake
147		Cruc Pitfm
148		W/pltfm, Muzz brake
149	(Br) S 14492	
150		Mtd in Centurion tk Mk5
151		The second second second
152		(Ends blown)
153		Stuck in rd at 30 deg
154		(Stuck in rd at 30 deg)
155		-
- UP 2,50°		Missed repro beent pattern

### NOTES

115 116 117	Casc threaded Casc threaded Fort mt,2 hdspks,blk & T Fort Mt orig Fort mt orig Fort mt orig Sitting on iron blocks
123 124 125 126	Claim only Pal guns ex UK Claim only Pal guns ex UK
127 128 129	El Grads1.2,3 R&L Heavy paint job
130 131 132 134 135 136 137 138 140 141 142 144 145 146 147 148	Plaq 24 Pr Armstr ML 1847  (MGD)Mestria juncta in uno SH cyph of SS(W) S Herbert M cyph of MGD, Mulgrave M cyph of MGD Mulgrave Quoin 24 pr 500 W Plaq:32 Pr SBML Crnde (Plaq:32 pr SBML Cde 1779) (Plaq:32 pr SBML Cde 1779) (Plaq:32 pr SBML Cde (Plaq:32 pr SBML Cde (Plaq:32 pr SBML Cde (Plaq:32 pr SBML Cde Axle stubs Great che 2 lbs Ra 2000 yd Iron balls on br screw German A Tk gun German AA gun, also fd Brownfield gun, plaque Fm Dest HMCS Huron
150 151 152 153 154	CFR # 52-81053 class of 79 Mtd in Sherman tk "Athene" Excavated in bldg constr Guide for carriage whs? Guide for carriage whs?

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# ABBREVIATIONS

### ANNEX B

ABBREV	MEANING	ABBREV	MEANING
AA	anti-aircraft	d/eag	double eagle
AB	Advance Battery	de f	defence, defended
abbrev	abbreviation	deg	degree
appr	apprentice	D€MD	Dieu et Mon Droit
Arm Offr	Armament Officer	dest	destroyer
Armstr	Armstrong	dit	ditch
<u>A</u> tk	anti-tank	dolph	dolphins
B	basement	dvr	driver
bk	brake	Ε	east
bl	barrel	el g	elevating gear
bl	block	elev	elevating
bldg	building	exch	exchange
b1k & t	block & tackle	fd	field
Bloom	Bloomfield	FF	Fort Frederick
br	breech	Ffro	Fort Frontenac
Br	British	FFT	Fort Frederick Tower
bra 55	brass	FH	Fort Henry
Ьtу	battery	fl	floor
buff	buffer	fl p	flagpole
burn	burnished	fort	fortress
cal	calibre	f m	from
cann	cannister	Ęr	French
cann cant	cannon	fr	front
	canteen	fps	feet per second
carr casc	carriage cascobel	Ft Hald	Fort Haldimand
cde		furn	furniture
CFBK	carronade	G	gate .
ch	CFB Kingston chase	gnd	ground
ch	church	gnr	gunner
Clar st	Clarence Street	gr	grape
clws	clockwise	gr	groove
C of G		grads	graduations
Comm st	centre of gravity commissary store	grn 	garrison
constr	construction	grnd	ground
cool	cooling	Gtr	Garter
cr	crown	hdspk	handspike
cruc	cruciform	hdwl	handwheel
cwt	hundredweight	hndl	handle
cyph	cypher	how Henmyb	howitzer
db1	double	HSQMYP	Honi Soit Qui Mal Y
201	unal Le		Fense

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illeg in IN M G incl Ind indec inter Ire jkt K L laun lb ldge lib limb Lndndry loc lt lt M Maint Mac Malt+	illegible inch Inner Main Gate inclined Industries indecipherable interrupted Ireland jacket Kingston left launched pound lodge library limber Londonderry local,location light limited main maintenance Mackenzie Maltese cross	N Nav Nav Nav Nav Nav Nav St orig gd orig gd pald peg pland ppos school pres ch	North Naval northeast number near northwest operated Ordnance Store original ounce parade square paint yard Palliser pedestal parade ground park plaque platform positive position pounder presented, president Presbyterian church
mar McD	marine Macdonald	ptd pvt	painted pivot
meas mem	measured memorial	QF	Quick firing
m fr	memoriai manufacturer	R RBL	Range, right, royal rifled breech
MG	machine gun	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	loading
MGO	Master General of	RCD	Royal Carriage Dept
mk	Ordnance mark	٣٥	road,round
mkg	marking	rec refurb	recuperator refurbished
ML	muzzle loading	Reg#	registered number
min	minute, minimum	reinf	reinforced
mod	modified	repro	reproduction
mt	mount	res	residence
mtd	mounted	rest	restored
MTM	Murney Tower Museum	RFC	Reverse fire chamber
mz 1	muzzle	rg	ring

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RGF
           Royal Gun Factory
TIV
           rivet
RML
           rifled muzzle loading~
RPT
           rampart
S
           south
salv
           salvage
SBML
           smoothbore muzzle loading
s circ
           semi circular
医电子
           screw
sec
           second, section
SF
           Stone Frigate
Sh
           Shannon
sh.
           shoulder, shot
SIL
           Sorel Industries Ltd
\leq 1
           sliding
sign 1
           solid
SS(W)
           Secretary of State for War
MZE
           Senior Staff Mess
St And
           Saint Andrews
ST
           storeroom
St 1
           Storeroom 1
St Lawr
           St Lawrence
Stock
           stockade
SW
           southwest
T
           tower
tac
           tactical
thr
           threaded
tk
           tank
tr
           trunnion
trks
           trucks
trl
           trail
vert
           vertical
W
           west
Wh
           where
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           with
wh
           wheel
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           weight
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yards

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# ANNEX C

# GUN SUMMARY

TYPE		CAL	FH	CFBK	Ffro	K	MTM	RMC	TOTAL
B1 carronade 32 pr		6.25	1	*		100			3
81 gun (assorted)		3	15						15
El gun fragment		4.75		~				1	1
Bl gun (in road)		4.75	ak					2	<u> </u>
BI gun 4 pr Fr		3.25	4						4
Bl gun 6 pr Nav Bl gun 8 pr Fr		3.60	1						1
B1 gun 9 pr		4.18	1						1
Bl gun 9 pr Nav		4.20	1						1
B1 gun 12 pr ML		4.20	1						1
31 gun 18 pr Bloom SBML		5.29	2						7
Bl gun 24 ar Bloom SBML		5.75	-2			1			m 4
81 gun 32 pr Bloom SBML		6.41	1			Cia.			1
Bl gun 32 pr Palliser		6.25	olle					2	2
TOTAL Barrels only		0.20	27	0	0	3	0	5	35
Carronade 24 pr		5.50	2						2
Carronade 32 pr		6.00	7				-7	6	2 15
TOTAL Carronades			_ 3	0	0	0	2	6	17
Gun 1 in Rampart ML		1	1						1
Gun 3 in		3	1						1
Gun 3 pr bronze		2.91	2						2
Gun 3 pr QF Nordenfeld		2.6				1			1 2 1 2 1
Gun 4 in QF Nav twin		4						1	1
Gun 6 pr fd Armstr RBL		2.5	2						2
Gun 6 pr fd SBML		3.66	1						1
Gun 8 in Armstr RBL		8						1	1
Gun 8 in Shell SBML		8.05	4						$1/\frac{6}{8}$
Gun 9 pr fd brass		4.2	2						2 4 2
Gun 9 pr fd bronze		4.25	1					3	4
Gun 9 pr fd RML		3	1			1			2
Gun 10 bl Gatling		0.45	1						1
Gun 12 pr Bloom SBML Gun 12 pr fd Armstr RBL		4.5	1						1
Gun 12 pr fd RBL		3	1						1
Gun 18 pr Bloom SBML		5.25	7			4			1
Gun 20 pr tk		3.25		1		1		4	1
Gun 24 pr Armstr RML		5.75		7				1 2	2
Gun 24 pr Bloom SBML		5.75	8		1			4	4
Gun 24 pr bronze SBML		5.75	_		4			1	1
Gun 24 pr short SBML		5.8	1					1	4
Gun 25 pr		3.45	- Ob-	1	2			1	2 2 9 1 1 4
Gun 32 pr Bloom SBML			10	-	2		1	11	25
Gun 32 pr Millar SBML		8	494 250		-		ofis	2	20
Gun 56 pr Bloom SBML		7.65	1					-	2 1 2 1
	75			1				1	2
Gun 77 mm QF Mk I		3		-		1		-	1
Gun 88mm Flak	88					-		1	Ī
		125861						T	.1.

Fun 1952n SBAL Gun 88 mm Pak 43 Gun 110 pr Armstr RBL	CAL 7.75 in 88 mm	FH 1	CFBK	Ffro	K	MTM	RMC	TOTAL
Gun Russian SBML	6.75		. 76					2
Gun SBML "Shannon's "	3.5				1			1
TOTAL Guns		40	3	6	8	1	26	93
How deck	1.75	1						1
How 3 in	3	2						1 2 1 2
How	3.75	1						1
How 5 in fd RBL	5	1		1				2
How 155 mm M1A2			Σ					1
How 24 pr brass SBML		1						1
How 24 pr fd bronze SBML	5.72	1						1
TOTAL Howitzers		_7	1	1	Ó	Ô	Ö	9
MG 1 pr QF Mk I		1						2
MG 1.25 pr Mk III		1						1
TOTAL MGs		_2	0	0	0	0	Ō	
Mortar Coehorn brass	4.52	1						1
Mortar 8 in	8			2				2
Mortar 10 in	10	1		1			2	4
Mortar 13 in	13	1						1
TOTAL Mortars		_3	0	3	Q	Q	2	8
GRAND TOTAL		88	4	10.	10	3	39	155



355.H8.F818 Francis, David Guns of Kingston 1991

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